

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/828,934
Source: IFW
Date Processed by STIC: 10/15/04

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IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/828,934

DATE: 10/15/2004

TIME: 10:35:43

Input Set : A:\Utmb1022.app

Output Set: N:\CRF4\10152004\J828934.raw

3 <110> APPLICANT: GORENSTEIN, DAVID G.
 4 LUXON, BRUCE A.
 5 KANG, JONGHOON
 6 LEE, MYUNG SOOG
 7 COPELAND III, JOHN ALTON
 9 <120> TITLE OF INVENTION: COMBINATORIAL SELECTION OF PHOSPHOROTHIOATE
 10 SINGLE-STRANDED DNA APTAMERS FOR TGF-BETA-1 PROTEIN
 12 <130> FILE REFERENCE: UTMB:1022
 14 <140> CURRENT APPLICATION NUMBER: 10/828,934
 15 <141> CURRENT FILING DATE: 2004-04-21
 17 <150> PRIOR APPLICATION NUMBER: 10/272,509
 18 <151> PRIOR FILING DATE: 2002-10-16
 20 <150> PRIOR APPLICATION NUMBER: 09/425,798
 21 <151> PRIOR FILING DATE: 1999-10-25
 23 <150> PRIOR APPLICATION NUMBER: 09/425,804
 24 <151> PRIOR FILING DATE: 1999-10-25
 26 <150> PRIOR APPLICATION NUMBER: 60/105,600
 27 <151> PRIOR FILING DATE: 1998-10-26
 29 <160> NUMBER OF SEQ ID NOS: 63
 31 <170> SOFTWARE: PatentIn Ver. 3.2
 33 <210> SEQ ID NO: 1
 34 <211> LENGTH: 74
 35 <212> TYPE: DNA
 36 <213> ORGANISM: Artificial Sequence
 38 <220> FEATURE:
 39 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 40 oligonucleotide
 42 <220> FEATURE:
 43 <221> NAME/KEY: modified_base
 44 <222> LOCATION: (24)..(53)
 45 <223> OTHER INFORMATION: a, t, c or g
 47 <400> SEQUENCE: 1
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 49 cgtgaagccg agcg 74
 52 <210> SEQ ID NO: 2
 53 <211> LENGTH: 23
 54 <212> TYPE: DNA
 55 <213> ORGANISM: Artificial Sequence
 57 <220> FEATURE:
 58 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 59 oligonucleotide primer
 61 <400> SEQUENCE: 2
 62 cagtccggat gctctagagt gac 23

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65 <210> SEQ ID NO: 3
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67 <212> TYPE: DNA
68 <213> ORGANISM: Artificial Sequence
70 <220> FEATURE:
71 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
72     oligonucleotide primer
74 <400> SEQUENCE: 3
75 cgctcggctt cacgagattc g                               21
78 <210> SEQ ID NO: 4
79 <211> LENGTH: 30
80 <212> TYPE: DNA
81 <213> ORGANISM: Artificial Sequence
83 <220> FEATURE:
84 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
85     oligonucleotide
87 <400> SEQUENCE: 4
88 tgtcgttggtg tcctgtaccc gccttgacca                       30
91 <210> SEQ ID NO: 5
92 <211> LENGTH: 30
93 <212> TYPE: DNA
94 <213> ORGANISM: Artificial Sequence
96 <220> FEATURE:
97 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
98     oligonucleotide
100 <400> SEQUENCE: 5
101 tgtctcgatg ctagactcta taccgcgcaa                        30
104 <210> SEQ ID NO: 6
105 <211> LENGTH: 30
106 <212> TYPE: DNA
107 <213> ORGANISM: Artificial Sequence
109 <220> FEATURE:
110 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
111     oligonucleotide
113 <400> SEQUENCE: 6
114 tgtggactgg tctatccatg cacctgtacc                       30
117 <210> SEQ ID NO: 7
118 <211> LENGTH: 30
119 <212> TYPE: DNA
120 <213> ORGANISM: Artificial Sequence
122 <220> FEATURE:
123 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
124     oligonucleotide
126 <400> SEQUENCE: 7
127 tgtgtgtatg gtccttgcat cgattccctg                       30
130 <210> SEQ ID NO: 8
131 <211> LENGTH: 29
132 <212> TYPE: DNA
133 <213> ORGANISM: Artificial Sequence

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135 <220> FEATURE:
136 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
137     oligonucleotide
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140 tgtgtctatc gctgcaccgt gtccataca                29
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145 <212> TYPE: DNA
146 <213> ORGANISM: Artificial Sequence
148 <220> FEATURE:
149 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
150     oligonucleotide
152 <400> SEQUENCE: 9
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158 <212> TYPE: DNA
159 <213> ORGANISM: Artificial Sequence
161 <220> FEATURE:
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163     oligonucleotide
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169 <210> SEQ ID NO: 11
170 <211> LENGTH: 30
171 <212> TYPE: DNA
172 <213> ORGANISM: Artificial Sequence
174 <220> FEATURE:
175 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
176     oligonucleotide
178 <400> SEQUENCE: 11
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184 <212> TYPE: DNA
185 <213> ORGANISM: Artificial Sequence
187 <220> FEATURE:
188 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
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195 <210> SEQ ID NO: 13
196 <211> LENGTH: 30
197 <212> TYPE: DNA
198 <213> ORGANISM: Artificial Sequence
200 <220> FEATURE:
201 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
202     oligonucleotide
204 <400> SEQUENCE: 13

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205 atcgctgact gtcctgtcac tgtccatcca          30
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213 <220> FEATURE:
214 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
215     oligonucleotide
217 <400> SEQUENCE: 14
218 tggaggtgcc tggatatatc gactcgaccc          30
221 <210> SEQ ID NO: 15
222 <211> LENGTH: 30
223 <212> TYPE: DNA
224 <213> ORGANISM: Artificial Sequence
226 <220> FEATURE:
227 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
228     oligonucleotide
230 <400> SEQUENCE: 15
231 gtgtccttgt ctacgctcga tacacgacac          30
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235 <211> LENGTH: 30
236 <212> TYPE: DNA
237 <213> ORGANISM: Artificial Sequence
239 <220> FEATURE:
240 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
241     oligonucleotide
243 <400> SEQUENCE: 16
244 tgtggcggtg actgtacacg tcgatacacc          30
247 <210> SEQ ID NO: 17
248 <211> LENGTH: 30
249 <212> TYPE: DNA
250 <213> ORGANISM: Artificial Sequence
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254     oligonucleotide
256 <400> SEQUENCE: 17
257 tggctggtca ctgtactctc tgctctccac          30
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261 <211> LENGTH: 30
262 <212> TYPE: DNA
263 <213> ORGANISM: Artificial Sequence
265 <220> FEATURE:
266 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
267     oligonucleotide
269 <400> SEQUENCE: 18
270 tgtagtgtcc tggctatcca cgtctccatt          30
273 <210> SEQ ID NO: 19
274 <211> LENGTH: 30
275 <212> TYPE: DNA

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276 <213> ORGANISM: Artificial Sequence
278 <220> FEATURE:
279 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
280 oligonucleotide
282 <400> SEQUENCE: 19
283 tggatcgctt atcgctcga tcattgccca 30
286 <210> SEQ ID NO: 20
287 <211> LENGTH: 30
288 <212> TYPE: DNA
289 <213> ORGANISM: Artificial Sequence
291 <220> FEATURE:
292 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
293 oligonucleotide
295 <400> SEQUENCE: 20
296 ttgttgctt ggcacgcct cgactcgctg 30
299 <210> SEQ ID NO: 21
300 <211> LENGTH: 41
301 <212> TYPE: DNA
302 <213> ORGANISM: Artificial Sequence
304 <220> FEATURE:
305 <223> OTHER INFORMATION: Description of Artificial Sequence: consensus
306 oligonucleotide sequence
308 <220> FEATURE:
309 <221> NAME/KEY: modified_base
310 <222> LOCATION: (1)..(2)
311 <223> OTHER INFORMATION: a, t, c or g
313 <220> FEATURE:
314 <221> NAME/KEY: modified_base
315 <222> LOCATION: (6)
316 <223> OTHER INFORMATION: a, t, c or g
318 <220> FEATURE:
319 <221> NAME/KEY: modified_base
320 <222> LOCATION: (9)..(10)
321 <223> OTHER INFORMATION: a, t, c or g
323 <220> FEATURE:
324 <221> NAME/KEY: modified_base
325 <222> LOCATION: (13)..(15)
326 <223> OTHER INFORMATION: a, t, c or g
328 <220> FEATURE:
329 <221> NAME/KEY: modified_base
330 <222> LOCATION: (19)..(20)
331 <223> OTHER INFORMATION: a, t, c or g
333 <220> FEATURE:
334 <221> NAME/KEY: modified_base
335 <222> LOCATION: (26)
336 <223> OTHER INFORMATION: a, t, c or g
338 <220> FEATURE:
339 <221> NAME/KEY: modified_base
340 <222> LOCATION: (28)

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/828,934

DATE: 10/15/2004
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Input Set : A:\Utmb1022.app
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ase Note:

of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
<223> fields of each sequence which presents at least one n or Xaa.

#:1; N Pos. 24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43

#:1; N Pos. 44,45,46,47,48,49,50,51,52,53

#:21; N Pos. 1,2,6,9,10,13,14,15,19,20,26,28,30,31,32,35,40,41

#:59; N Pos. 11,20

VERIFICATION SUMMARY

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18 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
359 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
366 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:0